

Anion exchange resins for separation of boron isotopes. (Mitsubishi Chemical Industries Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho (1985), 10 pp. CODEN: JKXXAF JP 60102948 A2 19850607 Showa. Patent written in Japanese. Application: JP 83-212248 19831111. CAN 104:118292 AN 1986:118292 CAPLUS

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 60102948	A2	19850607	JP 1983-212248	19831111
JP 04060701	B4	19920928		

Priority Application

JP 1983-212248	19831111
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Abstract

Anion exchange resins for sepn. of B isotopes were prepd. by making the vol. change ratio $[(V2-V1)/V1 \times 100]$ (V1 = vol. of free amine-type resin in H₂O, V2 = vol. of HCl absorbing-type resin in H₂O) to be 8-30 of aminopolyol anion exchange resins having NRCH₂[CH(OH)]_nCH₂OH [n = 1-6; R = H, C1 to C5 alkyl, CH₂[CH(OH)]_mCH₂OH (m = 0-6)] moiety. The B isotopes are sepd. by passing H₃BO₃ soln. over a resin tower and eluting with acid solns. Thus, a cross-linking copolymer of PhCH:CH₂ 90, 55% C₆H₄(CH:CH₂)₂ 8, and iso-C₈H₁₈ 95 g was chloromethylated with chloromethyl ether, N-methyl-D-glucamine was introduced as the functional group, and the product was made into a free amine form to prep. a catalyst.

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Title: JP60102948A2: ANION EXCHANGE RESIN FOR CONCENTRATING BORON ISOTOPE

Derwent Title: Boron isotope concentration - using amino-poly:ol anion exchange resin treated with boric acid
[\[Derwent Record\]](#)

Country: JP Japan
Kind: A (See also: [JP04060701B4](#))
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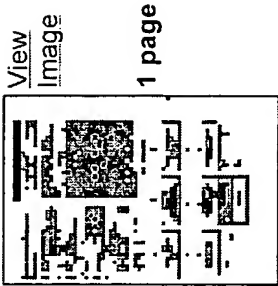
Application Number: JP1983000212248

IPC Code: IPC-7: [B01J 41/12](#); [B01D 59/30](#); [C08F 8/32](#); [C08F 12/08](#); [G21C 7/06](#);

Priority Number: 1983-11-11 JP1983000212248

Abstract: PURPOSE: To enable to efficiently concentrate a boron isotope, by using the titled anion exchange resin having a specified volume change ratio.

CONSTITUTION: In an anion exchange resin used in concentrating a boron isotope by passing boric acid through an ion exchange resin bed formed of an aminopolyol-type anion exchange resin to provide a boric acid adsorption zone followed by passing an acidic solution therethrough, the volume change ratio represented by formula I, wherein V1 is the volume of the resin in the free



amine form in water, and V2 is the volume of the resin with hydrochloric acid adsorbed thereon in water, is set to be 8W30. The anion exchange resin is a resin which has an aminopolyol group of formula II, wherein n is an integer of 1W6, R is H, a 1W5C alkylo group or -CH2-(CHOH)m-CH2OH, wherein m is 0 or 1W6, as a functional group. The anion exchange resin can be used for efficiently concentrating the boron isotope.

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